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(71)Applicant : MITSUBISHI MATERIALS CORP

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(72)Inventor : HIRANO MASAHIRO
TAKEUCHI HIROYASU

(54) HYDRAULIC CALCIUM PHOSPHATE CEMENT

(57)Abstract:

PURPOSE: To obtain hydraulic calcium phosphate cement not irritating a living body, hardening in a short time, having a great affinity for a living body and useful as medical cement, dental cement, etc., by using calcium quat. phosphate and calcium prim. phosphate as essential components.

CONSTITUTION: Calcium quat. phosphate $\text{Ca}_4(\text{PO}_4)_2\text{O}$ of ≤ 100 mesh, preferably ≤ 325 mesh particle size is mixed with calcium prim. phosphate $\text{Ca}(\text{H}_2\text{PO}_4)_2$ so as to satisfy 1.00-1.95 molar ratio of Ca to P and the resulting powdery mixture is used as a base and blended with a contrast medium such as barium sulfate or basic bismuth carbonate and an antimicrobial agent such as iodoform as required to obtain hydraulic calcium phosphate cement.

LEGAL STATUS

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